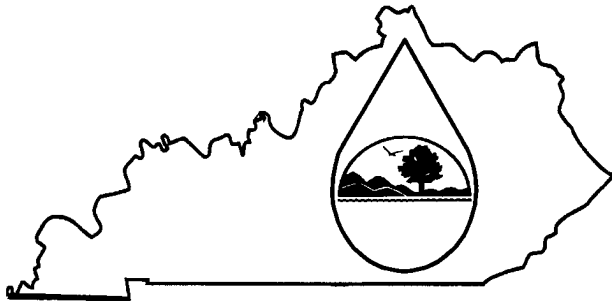


KPDES FORM 1

AI : 13989



KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

This is an application to: (check one)

- ☐ Apply for a new permit.
☐ Apply for reissuance of expiring permit.
☐ Apply for a construction permit.
☒ Modify an existing permit.

Give reason for modification under Item II.A.

A complete application consists of this form and one of the following:

Form A, Form B, Form C, Form F, or Short Form C

For additional information contact: **\$240.00**
KPDES Branch (502) 564-3410

I. FACILITY LOCATION AND CONTACT INFORMATION		AGENCY USE	0	1	0	5	7	8	3
A. Name of business, municipality, company, etc. requesting permit MATT/CO, INC.									
B. Facility Name and Location					C. Facility Owner/Mailing Address				
Facility Location Name: MATT/CO, INC.					Owner Name: MATT/CO, INC.				
Facility Location Address (i.e. street, road, etc.): SUGARLOAF BRANCH					Mailing Street: 439 MEADOWS BRANCH				
Facility Location City, State, Zip Code: PRESTONSBURG, KY 41653					Mailing City, State, Zip Code: PRESTONSBURG, KY 41653				
					Telephone Number: 606-886-0611				

II. FACILITY DESCRIPTION			
A. Provide a brief description of activities, products, etc: This amendment application proposes contour mining in the Fireclay and Fireclay Rider seam to the south west end of the current permit area.			
B. Standard Industrial Classification (SIC) Code and Description			
Principal SIC Code & Description:	2121 MINING		
Other SIC Codes:			

III. FACILITY LOCATION	
A. Attach a U.S. Geological Survey 7 1/2 minute quadrangle map for the site. (See instructions)	
B. County where facility is located: FLOYD	City where facility is located (if applicable): PRESTONSBURG
C. Body of water receiving discharge: SUGARLOAF BRANCH	
D. Facility Site Latitude (degrees, minutes, seconds): 37° 39' 35"	Facility Site Longitude (degrees, minutes, seconds): 82° 42' 00"
Method used to obtain latitude & longitude (see instructions): LANCER TOPOGRAPHIC MAP	
F. Facility Dun and Bradstreet Number (DUNS #) (if applicable):	

IV. OWNER/OPERATOR INFORMATION	
A. Type of Ownership: <input type="checkbox"/> Publicly Owned <input checked="" type="checkbox"/> Privately Owned <input type="checkbox"/> State Owned <input type="checkbox"/> Both Public and Private Owned <input type="checkbox"/> Federally owned	
B. Operator Contact Information (See instructions)	
Name of Treatment Plant Operator: N/A	Telephone Number:
Operator Mailing Address (Street):	
Operator Mailing Address (City, State, Zip Code):	
Is the operator also the owner? Yes <input type="checkbox"/> No <input type="checkbox"/>	Is the operator certified? If yes, list certification class and number below. Yes <input type="checkbox"/> No <input type="checkbox"/>
Certification Class:	Certification Number:

V. EXISTING ENVIRONMENTAL PERMITS		
Current NPDES Number: KY0105783	Issue Date of Current Permit:	Expiration Date of Current Permit: PENDING
Number of Times Permit Reissued:	Date of Original Permit Issuance:	Sludge Disposal Permit Number:
Kentucky DOW Operational Permit #:	Kentucky DSMRE Permit Number(s): 836-0307	PENDING

C. Which of the following additional environmental permit/registration categories will also apply to this facility?

CATEGORY	EXISTING PERMIT WITH NO.	PERMIT NEEDED WITH PLANNED APPLICATION DATE
Air Emission Source	N/A	
Solid or Special Waste	N/A	
Hazardous Waste - Registration or Permit	N/A	

VI. DISCHARGE MONITORING REPORTS (DMRs)	
KPDES permit holders are required to submit DMRs to the Division of Water on a regular schedule (as defined by the KPDES permit). The information in this section serves to specifically identify the department, office or individual you designate as responsible for submitting DMR forms to the Division of Water.	
A. Name of department, office or official submitting DMRs:	CLARK PERGEM
B. Address where DMR forms are to be sent. (Complete only if address is different from mailing address in Section I.)	
DMR Mailing Name:	MATT/CO, INC.
DMR Mailing Street:	439 MEADOWS BRANCH
DMR Mailing City, State, Zip Code:	PRESTONSBURG, KY 41653
DMR Official Telephone Number:	606-886-0611

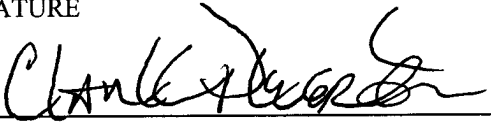
VII. APPLICATION FILING FEE

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. Descriptions of the base fee amounts are given in the "General Instructions."

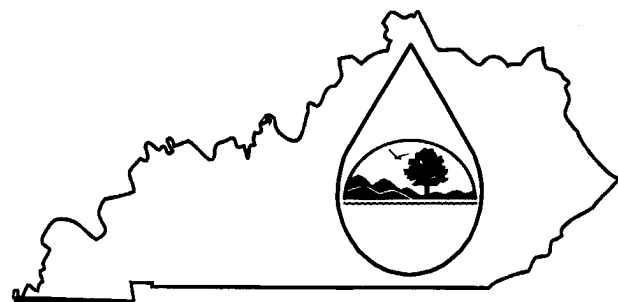
Facility Fee Category:	Filing Fee Enclosed:
Surface Mining Operation	\$240.00

VIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
CLARK PERGEM, PRESIDENT	606-886-0611
SIGNATURE 	DATE: OCTOBER 2, 2007

KPDES FORM C



KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact KPDES Branch, (502) 564-3410.

Name of Facility: MATT/CO, INC.	County: FLOYD
I. OUTFALL LOCATION	AGENCY USE 0 1 0 5 7 8 3

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

Outfall No. (list)	LATITUDE			LONGITUDE			RECEIVING WATER (name)
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	
Reference							
Attachment I.A							

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

OUTFALL NO. (list)	OPERATION(S) CONTRIBUTING FLOW		TREATMENT	
	Operation (list)	Avg/Design Flow (include units)	Description	List Codes from Table C-1
Reference				
Attachment II.A				

I. Outfall Location Permit No. 836-0307

OUTFALL NO.	LATITUDE			LONGITUDE			RECEIVING WATER
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	
SW-1	37	39	40	82	42	22	Sugarloaf Branch
SW-2	37	40	24	82	41	42	Corn Fork
SW-3	37	40	38	82	43	31	Corn Fork
SW-4	37	40	20	82	42	58	Knottly Fork
SW-5	37	39	04	82	40	34	Goble Branch
SW-6	37	39	38	82	39	05	Left Fork of Home Branch
SW-7	37	40	13	82	40	02	Souders Fork
SW-8*	37	39	26	82	41	28	Sugarloaf Branch
1	37	39	46	82	41	46	Sugarloaf Branch
3	37	40	11	82	41	32	Corn Fork
4	37	40	09	82	41	14	Corn Fork
5	37	40	04	82	41	08	Corn Fork
7	37	39	48	82	41	00	Sugarloaf Branch
8	37	39	50	82	41	11	Sugarloaf Branch
9	37	39	40	82	41	26	Sugarloaf Branch
10	37	40	07	82	40	55	Corn Fork
11	37	40	06	82	40	39	Souders Branch
12	37	40	27	82	42	35	Knottly Hollow
13	37	40	22	82	41	43	Corn Fork
14	37	39	57	82	42	01	Sugarloaf Branch
15	37	40	04	82	42	10	Sugarloaf Branch
16	37	40	05	82	42	18	Sugarloaf Branch
17	37	39	54	82	42	30	Sugarloaf Branch
18	37	40	11	82	42	33	Levisa Fork
19	37	40	35	82	42	36	Knottly Hollow
21	37	40	37	82	42	44	Corn Fork
22	37	40	38	82	42	35	Corn Fork
23	37	40	32	82	42	24	Corn Fork
24	37	40	29	82	42	11	Corn Fork
25	37	40	21	82	42	15	Corn Fork
26	37	40	17	82	42	09	Corn Fork
27	37	40	11	82	42	06	Corn Fork
28	37	39	18	82	40	21	Woods Fork
29	37	39	29	82	40	27	Woods Fork
30	37	39	14	82	40	46	Woods Fork
31	37	39	26	82	40	42	Sugarloaf Branch
32	37	39	31	82	40	55	Sugarloaf Branch
33	37	39	47	82	40	49	Sugarloaf Branch
34*	37	39	31	82	41	15	Sugarloaf Branch
35*	37	39	21	82	41	15	Sugarloaf Branch
36*	37	39	22	82	41	08	Sugarloaf Branch

*Added by Amendment No. 2

II. Flows, Sources of Pollution, and Treatment Technologies

Permit No. 836-0307

OUTFALL NO. (list)	OPERATION(S) CONTRIBUTING FLOW		TREATMENT	
	Operation (list)	Average/Design Flow (include units)	Description	List Codes from Table C-1
SW-1	Surface Monitoring Point	0.03343 cfs#	Discharge to Surface Water	4-A
SW-2	Surface Monitoring Point	0.05571 cfs#	Discharge to Surface Water	4-A
SW-3	Surface Monitoring Point	0.0767 cfs#	Discharge to Surface Water	4-A
SW-4	Surface Monitoring Point	0.0501 cfs#	Discharge to Surface Water	4-A
SW-5	Surface Monitoring Point	0.0631 cfs#	Discharge to Surface Water	4-A
SW-6	Surface Monitoring Point	0.0724 cfs#	Discharge to Surface Water	4-A
SW-7	Surface Monitoring Point	0.0858 cfs#	Discharge to Surface Water	4-A
SW-8*	Surface Monitoring Point	0.012 cfs#	Discharge to Surface Water	4-A
1	Sediment Control Pond	164.90 cfs	Detention for Settling	1-U
3	Sediment Control Pond	7.33 cfs	Detention for Settling	1-U
4	Sediment Control Pond	10.03 cfs	Detention for Settling	1-U
5	Sediment Control Pond	18.02 cfs	Detention for Settling	1-U
6	Sediment Control Pond	18.66 cfs	Detention for Settling	1-U
7	Sediment Control Pond	16.99 cfs	Detention for Settling	1-U
8	Sediment Control Pond	19.75 cfs	Detention for Settling	1-U
9	Sediment Control Pond	12.96 cfs	Detention for Settling	1-U
10	Sediment Control Pond	92.10 cfs	Detention for Settling	1-U
11	Sediment Control Pond	102.40 cfs	Detention for Settling	1-U
12	Sediment Control Pond	109.72 cfs	Detention for Settling	1-U
13	Sediment Control Pond	124.07 cfs	Detention for Settling	1-U
14	Sediment Control Pond	21.65 cfs	Detention for Settling	1-U
15	Sediment Control Pond	22.65 cfs	Detention for Settling	1-U
16	Sediment Control Pond	31.02 cfs	Detention for Settling	1-U
17	Sediment Control Pond	26.11 cfs	Detention for Settling	1-U
18	Sediment Control Pond	34.17 cfs	Detention for Settling	1-U
19	Sediment Control Pond	5.89 cfs	Detention for Settling	1-U
21	Sediment Control Pond	4.93 cfs	Detention for Settling	1-U
22	Sediment Control Pond	8.55 cfs	Detention for Settling	1-U
23	Sediment Control Pond	9.57 cfs	Detention for Settling	1-U
24	Sediment Control Pond	9.99 cfs	Detention for Settling	1-U
25	Sediment Control Pond	15.34 cfs	Detention for Settling	1-U

*Added by Amendment No. 2

#Normal Pool (based on field measurement)

Design flow based on 10 year-24 hour storm event

II. Flows, Sources of Pollution, and Treatment Technologies

Permit No. 836-0307

[illegible]

*Added by Amendment No. 1

#Normal Pool (based on field measurement)

Design flow based on 10 year-24 hour storm event

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.)

☐ No (Go to Section III.)

OUTFALL NUMBER	OPERATIONS CONTRIBUTING FLOW	FREQUENCY		FLOW				
		Days Per Week	Months Per Year	Flow Rate (in mgd)		Total volume (specify with units)		Duration (in days)
				Long-Term Average	Maximum Daily	Long-Term Average	Maximum Daily	
(list)	(list)	(specify average)	(specify average)					

III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ Yes (Complete Item III-B) List effluent guideline category:

☒ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C)

☒ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

MAXIMUM QUANTITY			Affected Outfalls (list outfall numbers)
Quantity Per Day	Units of Measure	Operation, Product, Material, Etc. (specify)	

IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table)

☒ No (Go to Item IV-B)

IDENTIFICATION OF CONDITION AGREEMENT, ETC.	AFFECTED OUTFALLS		BRIEF DESCRIPTION OF PROJECT	FINAL COMPLIANCE DATE	
	No.	Source of Discharge		Required	Projected

D. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.

NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered 5-18.

D. Use the space below to list any of the pollutants (refer to SARA Title III, Section 313) listed in Table C-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

POLLUTANT	SOURCE	POLLUTANT	SOURCE

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substance or a component of a substance which you use or produce, or expect to use or produce over the next 5 years as an immediate or final product or byproduct?

☐

Yes (List all such pollutants below)

☒

No (Go to Item VI-B)

--

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharge of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

☐

Yes (Complete Item VI-C)

☒

No (Go to Item VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail to the best of your ability at this time the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years. Continue on additional sheets if you need more space.

--

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge of or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (Identify the test(s) and describe their purposes below)

☐ No (Go to Section VIII)

--

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

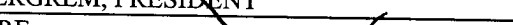
☐ Yes (list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below)

☐ No (Go to Section IX)

NAME	ADDRESS	TELEPHONE (Area code & number)	POLLUTANTS ANALYZED (list)
Appalachian States Analytical, LLC	P.O. Box 520 Shelbiana, KY 41562	606-437-5616	pH, Suspended Solids, Sulfate, Manganese

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
CLARK PERGEM, PRESIDENT	606-886-0611
SIGNATURE	DATE
	OCTOBER 12, 2004

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)										OUTFALL NO.		
Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.												
1. POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. (optional)		b. No of Analyses
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass	
a. Biochemical Oxygen Demand (BOD)												
b. Chemical Oxygen Demand (COD)												
c. Total Organic Carbon (TOC)												
d. Total Suspended Solids (TSS)		4										
e. Ammonia (as N)												
f. Flow (in units of MGD)	VALUE		VALUE		VALUE			MGD		VALUE		
g. Temperature (winter)	VALUE		VALUE		VALUE				°C	VALUE		
h. Temperature (summer)	VALUE		VALUE		VALUE				°C	VALUE		
i. pH	MINIMUM 6.87	MAXIMUM	MINIMUM	MAXIMUM				STANDARD UNITS				

Part B - In the "MARK 'X'" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		6. INTAKE (optional)			
	a. Believed Percent	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses
			(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass	
a. Bromide (24959-67-9)		X												
b. Bromine Total Residual		X												
c. Chloride		X												
d. Chlorine, Total Residual		X												
e. Color		X												
f. Fecal Coliform		X												
g. Fluoride (16984-48-8)		X												
h. Hardness (as CaCO ₃)	X		208.46											
i. Nitrate – Nitrite (as N)		X												
j. Nitrogen, Total Organic (as N)		X												
k. Oil and Grease		X												
l. Phosphorous (as P), Total 7723-14-0		X												
m.														
Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium Total		X												
(4) Radium, 226, Total		X												

Part B - Continued

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"		3. EFFLUENT								4. UNITS		5. INTAKE (optional)						
			a.						b.										
	a. Believed Present	b. Believed Absent	a. Maximum Daily Value (1) Concentration		(2) Mass	b. Maximum 30-Day Value (if available) Concentration		(1) Mass	c. Long-Term Avg. Value (if available) Concentration		(2) Mass	d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg. Value (1) Concentration		(2) Mass	b. No. of Analyses	
n. Sulfate (as SO ₄) (14808-79-8)	X		92																
o. Sulfide (as S)																			
p. Sulfite (as SO ₃) (14286-46-3)		X																	
q. Surfactants		X																	
r. Aluminum, Total (7429-90)		X																	
s. Barium, Total (7440-39-3)		X																	
t. Boron, Total (7440-42-8)		X																	
u. Cobalt, Total (7440-48-4)		X																	
v. Iron, Total (7439-89-6)	X		0.03																
w. Magnesium Total (7439-96-4)		X																	
x. Molybdenum Total (7439-98-7)		X																	
y. Manganese, Total (7439-96-6)	X		0.01																
z. Tin, Total (7440-31-5)		X																	
aa. Titanium, Total (7440-32-6)		X																	

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark “X” in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark “X” in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark “X” in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part, please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. Testing Required	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass	
METALS, CYANIDE AND TOTAL PHENOLS															
1M. Antimony Total (7440-36-0)	X			0.002											
2M. Arsenic, Total (7440-38-2)	X			0.001											
3M. Beryllium Total (7440-41-7)	X			0.005											
4M. Cadmium Total (7440-43-9)	X			0.005											
5M. Chromium Total (7440-43-9)	X			0.02											
6M. Copper Total (7550-50-8)	X			0.01											
7M. Lead Total (7439-92-1)	X			0.05											
8M. Mercury Total (7439-97-6)	X			0.0002											
9M. Nickel, Total (7440-02-0)	X			0.005											
10M. Selenium, Total (7782-49-2)	X			0.002											
11M. Silver, Total (7440-28-0)	X			0.01											

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. Testing Required	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses
				(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)	
METALS, CYANIDE AND TOTAL PHENOLS (Continued)															
12M. Thallium, Total (7440-28-0)	X			0.1											
13M. Zinc, Total (7440-66-6)	X			0.005											
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8 Tetra- chlorodibenzo, P, Dioxin (1784-01-6)			X												
DESCRIBE RESULTS:															
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chloro- benzene (108-90-7)			X												
8V. Chlorodibro- momethane (124-48-1)			X												

Part C – Continued

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	a. Testing Required	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses	
				Maximum (1) Concentration	Mass (2)	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass		
9V. Chloroethane (74-00-3)			X													
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X													
11V. Chloroform (67-66-3)			X													
12V. Dichloro- bromomethane (75-71-8)			X													
14V. 1,1- Dichloroethane (75-34-3)			X													
15V. 1,2- Dichloroethane (107-06-2)			X													
16V. 1,1- Dichloroethylene (75-35-4)			X													
17V. 1,2-Di- chloropropane (78-87-5)			X													
18V. 1,3- Dichloropro- pylene (452-75-6)			X													
19V. Ethyl- benzene (100-41-4)			X													
20V. Methyl Bromide (74-83-9)			X													

Part C – Continued

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. Testing Required	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg. Value		b. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass	
21V. Methyl Chloride (74-87-3)			X												
22V. Methylene Chloride (75-00-2)			X												
23V. 1,1,2,2- Tetrachloro- ethane (79-34-5)			X												
24V. Tetrachloro- ethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans- Dichloro- ethylene (156-60-5)			X												
27V. 1,1,1-Tr- chloroethane (71-55-6)			X												
28V. 1,1,2-Tr- chloroethane (79-00-5)			X												
29V. Trichloro- ethylene (79-01-6)			X												
30V. Vinyl Chloride (75-01-4)			X												

Part C – Continued

1. POLLUTANT And CAS NO. (if available)	2 MARK "X"			3 EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. Testing Required	a. Believed Present	b. Believed Absent	a.		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a.		b. No. of Analyses
				Maximum Daily Value (1)	Mass (2)	Value (1)	Mass (2)	Value (1)	Mass (2)				Long-Term Avg Value (1)	Mass (2)	
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chloro-phenol (95-57-8)			X												
2A. 2,4-Dichloro- Orophenol (120-83-2)			X												
3A. 2,4-Dimeth- ylphenol (105-67-9)			X												
4A. 4,6-Dinitro- o-cresol (534-52-1)			X												
5A. 2,4-Dinitro- phenol (51-28-5)			X												
6A. 2-Nitro- phenol (88-75-5)			X												
7A. 4-Nitro- phenol (100-02-7)			X												
8A. P-chloro-m- cresol (59-50-7)															
9A. Pentachloro- phenol (87-88-5)			X												
10A. Phenol (108-05-2)			X												
11A. 2,4,6-Tri- chlorophenol (88-06-2)			X												
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acena- phthene (83-32-9)			X												

Part C – Continued

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	a. Testing Required	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses	
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass		
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)																
2B. Acena- phytene (208-96-8)			X													
3B. Anthra- cene (120-12-7)			X													
4B. Benzidine (92-87-5)			X													
5B. Benzo(a)- anthracene (56-55-3)			X													
6B. Benzo(a)- pyrene (50-32-8)			X													
7B. 3,4-Benzo- fluoranthene (205-99-2)			X													
8B. Benzo(ghi) perylene (191-24-2)			X													
9B. Benzo(k)- fluoranthene (207-08-9)			X													
10B. Bis(2- chlor- oethoxy)- methane (111-91-1)			X													
11B. Bis (2-chlor- oisopropyl)- Ether			X													
12B. Bis (2-ethyl- hexyl)- phthalate (117-81-7)			X													

Part C – Continued

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"		3. EFFLUENT								4. UNITS		5. INTAKE (optional)			
	a. Testing Required	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses	
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass		
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)																
13B. 4-Bromo-phenyl Phenyl ether (101-55-3)			X													
14B. Butyl-benzyl phthalate (85-68-7)			X													
15B. 2-Chloro-naphthalene (7005-72-3)			X													
16B. 4-Chloro-phenyl phenyl ether (7005-72-3)			X													
17B. Chrysene (218-01-9)			X													
18B. Dibenzo-(a,h) Anthracene (53-70-3)			X													
19B. 1,2-Dichloro-benzene (95-50-1)			X													
20B. 1,3-Dichloro-Benzene (541-73-1)			X													
21B. 1,4-Dichloro-benzene (106-46-7)			X													
22B. 3,3-Dichloro-benzidene (91-94-1)			X													
23B. Diethyl Phthalate (84-66-2)			X													

Part C – Continued

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"			3. EFFLUENT								4. UNITS		5. INTAKE (optional)	
	a. Testing Required	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg. Value		b. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)															
24B. Dimethyl Phthalate (131-11-3)			X												
25B. Di-N- butyl Phthalate (84-74-2)			X												
26B. 2,4-Dinitro- toluene (121-14-2)			X												
27B. 2,6-Dinitro- toluene (606-20-2)			X												
28B. Di-n-octyl Phthalate (117-84-0)			X												
29B. 1,2- diphenyl- hydrazine (as azobenzene) (122-66-7)			X												
30B. Fluoranthene (208-44-0)			X												
31B. Fluorene (86-73-7)			X												
32B. Hexachloro- benzene (118-71-1)			X												
33B. Hexachloro- butadiene (87-68-3)			X												
34B. Hexachloro- cyclopenta- diene (77-47-4)			X												

Part C – Continued

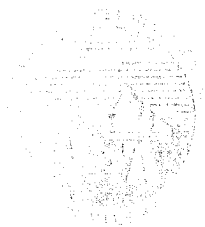
1. POLLUTANT And CAS NO. (if available)	2. MARK "X"			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	a. Testing Required	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses	
				(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)		
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)																
35B. Hexachloroethane (67-72-1)			X													
36B. Indeneo-Pyrene (1,2,3-oc) (193-39-5)			X													
37B. Isophorone (78-59-1)			X													
38B. Naphthalene (91-20-3)			X													
39B. Nitrobenzene (98-95-3)			X													
40B. N-Nitrosodimethylamine (62-75-9)			X													
41B. N-nitrosodi-n-propylamine (621-64-7)			X													
42B. N-nitrosodiphenylamine (86-30-6)			X													
43B. Phenanthrene (85-01-8)			X													
44B. Pyrene (129-00-0)			X													
45B. 1,2,4 Tri-chlorobenzene (120-82-1)			X													

Part C – Continued

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	a. Testing Required	a. Believed Present	b. Believed Absent	a.		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a.	b.	a.		b.	
				Maximum Daily Value (1)	Value (2)	Value (1)	Value (2)	Value (1)	Value (2)				Long-Term Avg. Value (1)	Value (2)		
																Concentration
GC/MS FRACTION – PESTICIDES																
1P. Aldrin (309-00-2)			X													
2P. α-BHC (319-84-6)			X													
3P. β-BHC (58-89-9)			X													
4P. gamma-BHC (58-89-9)			X													
5P. δ-BHC (319-86-8)			X													
6P. Chlordane (57-74-9)			X													
7P. 4,4'-DDT (50-29-3)			X													
8P. 4,4'-DDE (72-55-9)			X													
9P. 4,4'-DDD (72-54-8)			X													
10P. Dieldrin (60-57-1)			X													
11P. α- Endosulfan (115-29-7)			X													
12P. β- Endosulfan (115-29-7)			X													
13P. Endosulfan Sulfate (1031-07-8)			X													
14P. Endrin (72-20-8)			X													

Part C – Continued

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	2. Testing Required	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses	
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass		
GC/MS FRACTION – PESTICIDES																
15P. Endrin Aldehyde (7421-93-4)			X													
16P. Heptachlor (76-44-8)			X													
17P. Heptachlor Epoxide (1024-57-3)			X													
18P. PCB-1242 (53469-21-9)			X													
19P. PCB-1254 (11097-69-1)			X													
20P. PCB-1221 (11104-28-2)			X													
21P. PCB-1232 (11141-16-5)			X													
22P. PCB-1248 (12672-29-6)			X													
23P. PCB-1260 (11096-82-5)			X													
24P. PCB-1016 (12674-11-2)			X													
25P. Toxaphene (8001-35-2)			X													



PO Box 520
Shelbiana, KY 41562

Pike Technical Services, Inc.
183 Tollage Creek
Pikeville, KY 41501

Date Received 8/24/07
Date Reported 9/11/07
Order Number 2007-07483

ATTN: Tom Bow or Bill Justice

TEST DESCRIPTION	RESULT	UNITS	METHOD	MDL	DATE	TECH
Fraction	2007-07483001					
Sample I.D	SW-8 (836-0307A2)					
Date Sampled	8/24/2007					
Total Suspended Solids	4	mg/l	EPA 160.2	1	8/27/2007	TAB
Antimony, Total	<0.002	mg/l	EPA 204.2	0.002	8/27/2007	SLC
Chromium, Total	<0.02	mg/l	EPA 218.1	0.02	9/10/2007	DJ
Nickel, Total	<0.005	mg/l	EPA 249.1	0.005	9/07/2007	DJ
Zinc, Total	<0.005	mg/l	EPA 289.1	0.005	9/07/2007	SC
Flow	NDP	mgd			8/24/2007	CLT
Sulfate	92	mg/l	EPA 375.4	1	8/27/2007	TT
Arsenic, Total	<0.001	mg/l	EPA 206.2	0.001	9/05/2007	SC
Copper, Total	<0.01	mg/l	EPA 220.1	0.01	9/10/2007	SC
Selenium, Total	<0.002	mg/l	EPA 270.2	0.002	9/04/2007	DJ
Iron, Total	<0.03	mg/l	EPA 236.1	0.03	8/29/2007	SC
Beryllium, Total	<0.005	mg/l	EPA 210.1	0.005	9/10/2007	DJ
Lead, Total	<0.05	mg/l	EPA 239.1	0.05	9/10/2007	DJ
Silver, Total	<0.01	mg/l	EPA 272.1	0.01	9/05/2007	SC
Hardness	208.49	mg/l	SM 2340B	0.02	8/31/2007	DJ
Manganese, Total	<0.01	mg/l	EPA 243.1	0.01	8/29/2007	SC
Cadmium, Total	<0.005	mg/l	EPA 213.1	0.005	9/10/2007	DJ
Mercury, Total	<0.0002	mg/l	EPA 245.1	0.0002	9/07/2007	TT
Thallium, Total	<0.1	mg/l	EPA 279.1	0.1	9/10/2007	DJ
Temperature	NDP	C	SM 2550 B	0.4	8/24/2007	CLT
pH, Lab	6.87	std	SM 4500 H+ -B	0.01	8/24/2007	CB

Submitted By:

I DO HEREBY ATTEST THAT THIS IS A TRUE
AND EXACT COPY OF THE ORIGINAL DOCUMENT.

NOTARY PUBLIC
MY COMMISSION EXPIRES 11/5-07
STATE OF COMMISSION KENTUCKY

S & S WATER MONITORING, INC.

Environmental Testing & Consulting

4767 Hwy 580

Oil Springs, Kentucky 41238

Phone (606) 297-3621

LABORATORY ANALYSIS

Report No.: 1734

Collection Date: 3/01/07

Time of Collection: N/A

Date Received: 3/01/07

Name: Matt/Co. Inc.

Address: 439 Meadows Branch
Prestonsburg, 41653

Sample ID: SW-8, Head of Sugarloaf Branch

Sample Type: Grab

Sampled By: N.S. & J.S.

Permit No.: 836-0307

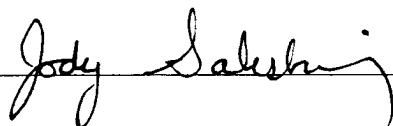
IN-STREAM ANALYSIS

PARAMETER MEASURED	VALUE	UNITS
Flow Rate	0.1114	CFS
pH	7.25	S.U.
Acidity, as CaCO ₃	0	Mg/l
Alkalinity, as CaCO ₃	77	Mg/l
Specific Conductance	442	Uomhos/cm
Iron, Total	0.15	Mg/l
Manganese, Total	0.21	Mg/l
Sulfate	37	Mg/l
Suspended Solids, Total	11	Mg/l

UNITS: CFS = Cubic Feet per Second, S.U. = Standard Units, Mg/l = Milligrams per Liter.

I HEREBY CERTIFY THAT THE RESULTS WERE OBTAINED BY USING ACCEPTED ANALYTICAL PROCEDURES AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

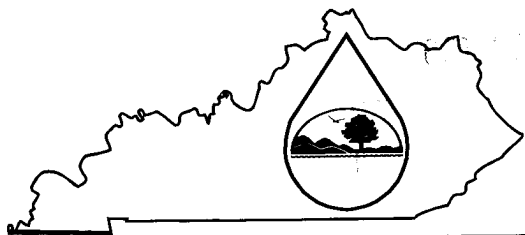
Respectfully Submitted:



I DO HEREBY ATTEST THAT THIS IS A TRUE
AND EXACT COPY OF THE ORIGINAL DOCUMENT.


NOTARY PUBLIC
MY COMMISSION EXPIRES 11-13-07
STATE OF COMMISSION KENTUCKY

KPDES FORM HQAA



Kentucky Pollutant Discharge Elimination System (KPDES)

High Quality Water Alternative Analysis

The Antidegradation Implementation Procedures outlined in 401 KAR 5:030, Section 1(3)(b)5 allows an applicant who does not accept the effluent limitations required by subparagraphs 2 and 3 of 5:030, Section 1(2)(b) to demonstrate to the satisfaction of the Environmental and Public Protection Cabinet that no technologically or economically feasible alternatives exist and that allowing lower water quality is necessary to accommodate important economic or social development in the area in which the water is located. The approval of a POTW's regional facility plan pursuant to 401 KAR 5:006 shall demonstrate compliance with the alternatives analysis and socioeconomic demonstration for a regional facility. This demonstration shall also include this completed form and copies of any engineering reports, economic feasibility studies, or other supporting documentation

I. Permit Information

Facility Name:	Matt/Co, Inc.	KPDES NO.:	KY0105783
Address:	439 Meadows Branch	County:	Floyd
City, State, Zip Code:	Prestonsburg, KY 41653	Receiving Water Name:	Sugarloaf Branch

II. Alternatives Analysis - For each alternative below, discuss what options were considered and state why these options were not considered feasible.

1. **Discharge to other treatment facilities.** Indicate which treatment works have been considered and provide the reasons why discharge to these works is not feasible.

Reference Attached II, Alternatives Analysis, Item 1.

2. **Use of other discharge locations.** Indicate what other discharge locations have been evaluated and the reasons why these locations are not feasible.

Reference Attached II, Alternatives Analysis, Item 2.

II. Alternatives Analysis - continued

3. **Water reuse or recycle.** Provide information about opportunities for water reuse or recycle at this facility. If water reuse or recycle is not a feasible alternative at this facility, please indicate the reasons why.

Reference Attached II, Alternatives Analysis, Item 3.

4. **Alternative process or treatment options.** Indicate what process or treatment options have been evaluated and provide the reasons they were not considered feasible.

Reference Attached II, Alternatives Analysis, Item 4.

II. Alternatives Analysis - continued

5. On-site or subsurface disposal options. Discuss the potential for on-site or subsurface disposal. If these options are not feasible, then please indicate the reasons why.

Reference Attached II, Alternatives Analysis, Item 5.

6. Evaluation of any other alternatives to lowering water quality. Describe any other alternatives that were evaluated and provide the reasons why these alternatives were not feasible.

Reference Attached II, Alternatives Analysis, Item 6.

III. Socioeconomic Demonstration

1. State the positive and beneficial effects of this facility on the existing environment or a public health problem.

Reference Attached III, Socioeconomic Demonstration, Item 1.

2. Describe this facility's effect on the employment of the area

Reference Attached III, Socioeconomic Demonstration, Item 2.

3. Describe how this facility will increase or avoid the decrease of area employment.

Reference Attached III, Socioeconomic Demonstration, Item 3.

4. Describe the industrial or commercial benefits to the community, including the creation of jobs, the raising of additional revenues, the creation of new or additional tax bases.

Reference Attached III, Socioeconomic Demonstration, Item 4.

5. Describe any other economic or social benefits to the community.

Reference Attached III, Socioeconomic Demonstration, Item 5.

III. Socioeconomic Demonstration - continued

- | | <u>Yes</u> | <u>No</u> |
|--|-------------------------------------|-------------------------------------|
| 6. Will this project be likely to change median household income in the county? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Will this project likely change the market value of taxable property in the county? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8. Will this project increase or decrease revenues in the county? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 9. Will any public buildings be affected by this system? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

10. How many households will be *economically* or *socially* impacted by this project? **25**
Reference Attached III, Socioeconomic Demonstration, Item 10.

11. How will those households be *economically* or *socially* impacted? (For example, through creation of jobs, educational opportunities, or other social or economic benefits.)

Reference Attached III, Socioeconomic Demonstration, Item 11.

- | | <u>Yes</u> | <u>No</u> |
|---|--------------------------|-------------------------------------|
| 12. Does this project replace any other methods of sewage treatment to existing facilities?
(If so describe how) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Reference Attached III, Socioeconomic Demonstration, Item 12.

- | | <u>Yes</u> | <u>No</u> |
|--|-------------------------------------|--------------------------|
| 13. Does this project treat any existing sources of pollution more effectively?
(If so describe how.) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Reference Attached III, Socioeconomic Demonstration, Item 12.

III. Socioeconomic Demonstration - continuedYesNo

14. Does this project eliminate any other sources of discharge or pollutants?
(If so describe how.)

☐☒

Reference Attached III, Socioeconomic Demonstration, Item 14.

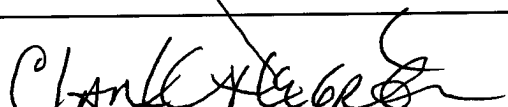
15. How will the increase in production levels positively affect the socioeconomic condition of the area?

Reference Attached III, Socioeconomic Demonstration, Item 15.

16. How will the increase in operational efficiency positively affect the socioeconomic condition of the area?

Reference Attached III, Socioeconomic Demonstration, Item 16.

IV Certification: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Title:	Clark Pergrem, President	Telephone No.:	606-886-0611
Signature:		Date:	October 3, 2007

II. Alternative Analysis

Item 1 Alternative treatment works have been investigated. The nearest water treatment system according to the Prestonsburg Utilities is at Prestonsburg, which is approximately 8.3 miles away. It would cost approximately \$221,600 at \$40/foot to contract the installation of 5,540 feet of collection lines and another \$1,765,600 to send the discharge to the nearest treatment facility at Prestonsburg. This would be a total cost of \$1,987,200 to collect and transport the discharge to the Prestonsburg facility. A sedimentation pond would also need to be installed at the Prestonsburg facility to remove the silt from the discharges. Construction and maintenance of this sedimentation would cost approximately \$40,000. Total costs to collect, transport and treat the discharges in this manner would exceed \$2,027,200.

Item 2 Sugarloaf Branch is the only creek which can directly receive the discharge from this operation along Route 1428. As stated previously, to collect and gather the discharge from this area would cost \$221,600 at \$40.00 a foot for piping. This cost is exclusive of the \$1,765,600 to transport to Prestonsburg.

The streams within a reasonable distance empty into the Levisa Fork. This added expense as an alternative is not viable since Levisa will eventually receive the discharges anyway.

Item 3 Water could be reused for dust suppression at the project site; however, the amount used is minimal when compared to the total discharge. The total drainage area is approximately 300 acres with a discharge of 600 gallons per minute or approximately 36,000 gallons per hour.

While a portion of the water could be used for dust suppression, it is generally required only during dry times when discharges are low or non-existent. Again, the amount of water used would be minimal. A water truck can carry approximately 5,000 gallons of water. Roads, etc. are generally watered twice a day during dry times. This equates to no other water is needed for recycling or reuse with the operation.

Item 4 Construction of a small package plant at the site is not feasible due to the cost of purchasing and installing a small package plant (\$50,000). Additional costs would be incurred to maintain the facility, perform repairs when necessary and remove the plant after operations are complete. Construction of silt fences and straw bales are inadequate and not permissible for this amount of disturbance.

Item 5 The only way to store the discharge on site is with a pond. To maintain the water on site without a discharge would require a very large pond. This pond would have to be built in the stream thus impacting a vast portion of the stream and causing a more detrimental environmental impact that is not needed. It is nearly impossible to construct a facility that would never discharge. The cost of constructing such a structure would magnify the original pond construction cost of \$10,000 by 100 fold.

Item 6 Other alternatives reviewed include reducing the standards for discharge or avoiding the project altogether.

By reducing the water quality limits, the project would experience increases in costs and additional time spent. Larger in-stream ponds would have to be constructed which would have a substantial negative impact on streams and could cost as much as \$1,000,000 for construction and stream mitigation of each. Large volumes of water would need to be stored within these structures producing more danger if a structural failure were to occur. The costs of removing these ponds would also be much greater (approximately \$100,000 per pond).

Another option to consider is to avoid the project altogether. This would have many negative affects on the area including reduction of employment and the loss of valuable coal that currently keeps Kentucky's electric costs the lowest in the nation. Avoiding this operation would not only affect coal miners but also the many businesses that provide support to the mining industry. This would eliminate the 25 new jobs. It would cancel indirect affects on approximately 50 local suppliers and their families. It would do away with the 1.1 million dollars of coal severance taxes and the income taxes which come directly into both the state and local economy.

III. Socioeconomic Demonstration

- Item 1 This operation will provide sediment control facilities in areas where there have been previous mining. These facilities will control the discharge of an area covering approximately 300 acres.

The movement of sediment is mostly unabated within the area but the proposed mining operation will create and maintain sediment control structures in the form of ponds. These will treat existing problems and reduce or eliminate their effect on the environment.

- Item 2 This mining operation would provide employment for approximately 25 men. These jobs provide higher wages than other industry jobs in Floyd County. The average weekly wage in the mining industry for Floyd County is \$778.76. The average weekly wage for all industries in Floyd County is \$545.49 (U.S. Bureau of Labor Statistics).

- Item 3 The economy of Floyd County is dependent on the mining industry. The proposed mine would be a new mine with all new personnel needed for operation. It will directly provide employment for approximately 25 men. This would give out-of-work miners and associated personnel an opportunity for employment while also providing possibilities for entry-level personnel to gain experience in the mining industry. This will also affect the industries that supply the material and equipment needed for mining, as well as engineering services and training that are needed for the mining industry for employment of as many as 50 other people.

- Item 4 Each new mine proposed will solidify the employment for people who may currently be employed looking for better paying jobs in the mining industry. This would allow experienced personnel to advance from current positions thus opening up new positions for less experienced miners who need employment. The proposed life of this mine is 5 years with additions possible. Approximately 611,174 tons is expected to be recovered from this mine which will generate around \$1,168,870 in severance taxes. Floyd County will receive approximately \$175,330 (15%) of these taxes to be used for local education, health care, and other city and county projects.

New revenue for Floyd County would also be generated from local income, property and sales taxes. The facilities will create additional revenue to the local businesses of the area through supplies and services needed for the mining operation and fulfilling the needs of the employees of the operation. The proposed mining will increase economic benefits to the area and will perpetuate those already in existence.

- Item 5 The jobs this proposed mine will create provide some of the highest wages in Floyd County. With an average weekly wage of \$778.76, a Floyd County miner makes approximately \$233.00 dollars more on the week than the average industry worker in Floyd County. The creation of these jobs also allows taxes to be collected spurring community development and the creation of non-coal related jobs. Severance taxes can be used to improve schools, water lines, sewage facilities and other community resources of Floyd County.
- Item 10 The facility is expected to employ approximately 25 men. Thus it will impact the 25 households of those men plus the households of at least another 50 local business owners in Floyd and surrounding counties and their employees that provide goods and services to the facility.
- Item 11 The households of the 25 employees will be impacted by the higher than average incomes provided by the jobs. The average weekly wage in the mining industry for Floyd County is \$778.76. The average weekly wage for all industries in Floyd County is \$545.49 (U.S. Bureau of Labor Statistics). Another 50 households of the business owners and workers who provide services for the mine will be impacted by the increased revenue this mine will provide to the existing businesses. The employees will be impacted positively with a more secure employment outlook due to the increased revenue.
- Item 12 There are no other existing sewage treatment facilities located within the area to replace. The nearest facility is 8.3 miles away.
- Item 13 Any discharges that exist in the proposed mining area because of pre-law mining and logging activities along with all other discharges in the area will now be treated under this operation.
- Item 14 This area has been logged and a portion of the Broas seam has been previously contour mined by pre-law operations. Drainage that flows through previously mined areas and areas that have been logged will flow through proposed sediment ponds. Thus these current and anticipated discharges will be treated in the proposed structures.

- Item 15 The increase in productivity levels not only provides jobs in Floyd County at a higher than average wage (\$778.76 for mining jobs vs. \$545.49 for other industries) but will create additional revenue for the businesses of the area. The additional revenue of the local businesses and the severance tax dollars (approximately \$1,168,870) generated by the project will provide the local government with additional tax revenues. These can be utilized for public safety including law enforcement, fire control, and ambulance services while also aiding in the industrial and economic development of the area.
- Item 16 By conducting the preponderance of this operation through contour mining we are disturbing much less surface area and accessing the coal in a more environmentally friendly way. Discharges will be reduced drastically as the surface area involved is only a fraction of what would be involved in a surface area mining operation. Efficiency is increased as much less overburden needs to be removed and costs can be kept down, thus providing more money to be available for the workers and in turn the economy of the area when the workers purchase goods such as homes, automobiles and food.

The contour mining portion of this permit will return mine areas to A.O.C. while reestablishing approximate original drainage patterns and vegetation.



PIKE TECHNICAL SERVICES, INC.
183 Tollage Creek
Pikeville, Kentucky 41501
Phone: (606) 432-0300 or Fax: (606) 433-1820

October 4, 2007

Mr. Larry Sowder
Environmental and Public Protection Cabinet
Division of Water
Frankfort Office Park
14 Reilly Road
Frankfort, KY 40601

Re: Matt/Co, Inc.
DNR Permit No. 836-0307 A2
KPDES Permit No. Pending

Dear Mr. Sowder:

On behalf of Matt/Co, Inc., I wish to submit for review and processing an individual KPDES for the above-referenced mining operation located in Sugarloaf Branch in Floyd County, Kentucky. This permit will add one (1) surface water monitoring point and three (3) sediment ponds. I have included KPDES Forms 1, C and HQAA as well as pertinent maps and analyses required for an individual KPDES permit.

Please feel free to contact me if you have any questions or need additional information.

Sincerely,

A handwritten signature in cursive script that reads 'Misty Stevens'.

Misty Stevens
Project Manager

c: file



ERNIE FLETCHER
GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601-1190
www.kentucky.gov

TERESA J. HILL
SECRETARY

November 16, 2007

Clark Pergrem, President
Matt/Co, Inc.
439 Meadows Branch
Prestonsburg, KY 41653

Re: KPDES Application Complete
KPDES No.: KY0105783
Matt/Co, Inc.
AI ID: 13989
Activity ID: APE20070001
Floyd County, Kentucky

Dear Mr. Pergrem,

Your revised Kentucky Pollutant Discharge Elimination System (KPDES) permit application for the above-referenced facility was received by the Division of Water on October 12, 2007. A completeness review of your permit application has been conducted. Please be aware that you may be asked to provide additional information to clarify, modify, or supplement your application material. In accordance with 401 KAR 5:075, Section 1(7) you are being provided written notification that your application has been deemed complete as of the date of this letter.

If you have any questions concerning this matter, please call me at (502) 564-8158, extension 590.

Sincerely,

A handwritten signature in cursive script, appearing to read "Sara Beard".

Sara Beard
Environmental Engineer Assistant III
KPDES Branch
Division of Water

SJB
Enclosures

c: Misty Stevens - Pike Technical Services, Inc.
183 Tollage Creek
Pikeville, KY 41501
Hazard Regional Office
Division of Water Files